Data Structures

Practical 4

Objective:

WAP to print a fibonacci series using recursion.

Code:

```
 #include <stdio.h>
int fibonacci(int x);
int main()
{
int a,i=0;
printf("Enter the number of terms : ");
scanf("%d",&a);
printf("fibonacci series : ");
for( i ; i<a ; i++){
printf("%d ",fibonacci(i));
}
return 0;
}
int fibonacci(int x){
if(x==0 || x==1){
return x;
}
else{
return fibonacci(x-1) + fibonacci(x-2);
}
```

Output:

```
C:\Users\Hp\OneDrive\Desktop\Untitled1.exe

Enter the number of terms : 11
fibonacci series : 0 1 1 2 3 5 8 13 21 34 55
-----------------------------------
Process exited after 4.396 seconds with return value 0
Press any key to continue . . .
```